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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,048	03/19/2004	Kia Silverbrook	ZG126US	6931
24011	7590	02/22/2006	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, NSW 2041 AUSTRALIA			FIDLER, SHELBY LEE	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

E/L

Office Action Summary	Application No.	Applicant(s)	
	10/804,048	SILVERBROOK, KIA	
	Examiner	Art Unit	
	Shelby Fidler	2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/19/2004</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Silverbrook (US 6672707 B2).

Silverbrook teaches the following:

***regarding claim 1**, a modular printhead for a digital printer, the modular printhead including:

a support frame (*element 3, Figure 1*) and a plurality of printhead modules (*elements 2, Figure 1*), the frame having a plurality of mounting sites for mounting respective printhead modules to the frame (*col. 1, line 63-65*); wherein,

at least one of the mounting sites has an adjustment mechanism for reducing input movements to effect minute adjustments of the position of the printhead module with respect to the frame (*col. 1, line 66-col. 2, line 2*)

***regarding claim 2**, the adjustment mechanism includes at least one lever and at least one pivot for geared reduction of the input movements to minute adjustments of the printhead module relative to the frame (*col. 2, lines 3-6*)

***regarding claim 3**, the at least one mounting sites includes:

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a module engagement plate upon which the printhead module is mounted (*element 19, Figure 3*), the module engagement plate being connected to the support frame by flexible arms the flexible arms constraining the plate to substantially linear movement relative to the frame (*col. 1, lines 13-16*); and an adjustment mechanism, the adjustment mechanism including:

a lever arm pivotally attached to the frame and also attached to the plate remote from an effective fulcrum (*elements 15 and 18, Figure 4*) wherein pivotal movement of the lever arm causes movement of the plate (*col. 3, lines 45-48*); and a movable member in engagement with the lever arm causing the pivotal movement of the lever arm (*intermediate integer, col. 3, lines 53-56*)

***regarding claim 4**, the ratio of movement of the movable member to the movement of the module engagement plate is at least 500 to 1 (*col. 2, lines 6-8*)

***regarding claim 5**, the movement of the printhead module relative to the frame is less than 100 μm (*col. 2, lines 9-10*)

***regarding claim 6**, the movement of the lever arm is substantially normal to the movement of the engagement plate (*col. 2, lines 16-18*)

***regarding claim 7**, the moveable member is a grub screw that actuates the lever arm for each respective adjustment mechanism, the screw being threadedly engaged with the support frame (*col. 2, lines 18-21*)

***regarding claim 8**, the ratio of axial movement of the respective grub screw to the movement of its respective module engagement plate is about 1000 to 1 (*col. 4, lines 7-11*)

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***regarding claim 9**, the adjustment mechanism is integrally formed in the frame with the respective flexible arms having localized necks formed at each end (*col. 2, lines 24-27*) allowing constrained movement of the respective module engagement plate (*col. 3, lines 40-44*)

***regarding claim 10**, the lever arm is integrally formed in the frame (*input lever 13 is part of arrangement plate 19, which is integrally formed in the frame; col. 3, lines 35-40*), the lever arm having at least one localized neck formed with the plate remote from the effective fulcrum (*necks associated with elements 15, 17, and 18, Figure 4*)

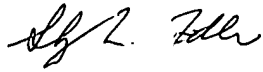
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Communication with the USPTO


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelby Fidler whose telephone number is (571) 272-8455. The examiner can normally be reached on MWF 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



SLF

 2/06
K. FIGGINS
PRIMARY EXAMINER